

**WHAT IS CLAIMED IS:**

1. A housing for a level measurement system, said housing comprising:
  - (a) an upper section;
  - (b) a lower section;
  - (c) said upper and said lower sections being coupled together to define an enclosure for housing electronic circuitry associated with the level measurement system;
  - (d) a reflective coating applied to a least a portion of said upper section, wherein said reflective coating is effective to reflect solar radiation.
2. The housing as claimed in claim 1, wherein said reflective coating is applied to the entire surface of said upper section.
3. The housing as claimed in claim 2 or 3, wherein said reflective coating is applied to at least a portion of the interior surface of the housing.
4. The housing as claimed in claim 2 or 3, wherein said reflective coating comprises a metallic film.
5. The housing as claimed in claim 2 or 3, wherein said reflective coating comprises a mirrored finish.
6. A level measurement system comprising:
  - (a) a transducer for emitting energy pulses and detecting reflected energy pulses;
  - (b) a controller for controlling said transducer, said controller being coupled to a transmitter component and said transmitter component being responsive to said controller for generating transmit control signals for said transducer, said controller being coupled to a receiver component and said receiver component generating receive signals for said controller in

response to detecting reflected energy pulses by said transducer, and said controller including a component for determining a level measurement reading based on said receiver signals;

(c) a liquid crystal display module for displaying said level measurement reading and one or more operating parameters;

(d) an enclosure for containing said transducer, said controller and said transmitter and said receiver components, and having a window for said liquid crystal display module;

(e) said enclosure having an exterior surface and a reflective coating being applied to at least a portion of said exterior surface, and wherein said reflective coating is adapted to reflect solar radiation.

7. The level measurement system as claimed in claim 6, wherein said reflective coating is applied to the entire surface of said housing.

8. The level measurement system as claimed in claim 6 or 7, wherein said reflective coating comprises a metallic film.

9. The level measurement system as claimed in claim 6 or 7, wherein said reflective coating comprises a mirrored finish.

10. The level measurement system as claimed in claim 6, wherein said enclosure has an interior surface, and a reflective coating is applied to at least a portion of said interior surface, and wherein said reflective coating is suitable to reflect solar radiation.

11. The level measurement system as claimed in claim 10, wherein said reflective coating comprises a metallic form.

12. The level measurement system as claimed in claim 10, wherein said reflective coating comprises a mirrored finish.